

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-157754

**(43)Date of publication of application : 20.06.1995**

(51)Int.Cl.

C09K 11/06  
H05B 33/14

**(21)Application number : 05-338934**

(71)Applicant : RICOH CO LTD

(22)Date of filing : 02.12.1993

(72)Inventor : TAMOTO NOZOMI  
NAGAI KAZUKIYO  
ADACHI CHIHAYA  
SAKON HIROTA

**(30)Priority**

Priority number : 05280541    Priority date : 14.10.1993    Priority country : JP

## (54) ELECTROLUMINESCENT DEVICE

(57)Abstract:

**PURPOSE:** To obtain the device having an organic compound layer with the constituent being a pyrene compound having specific structure, capable of sustaining both sufficient luminance and luminescent performance for a long time, and excellent in durability.

**CONSTITUTION:** This device can be obtained by sandwiching an organic compound layer with the constituent being a compound of formula I [R1 and R2 are each H, halogen, alkyl, etc.; Ar1 and Ar2 are each (substituted) aryl]. The compound of formula I is pref. used as a luminescent layer or positive hole transport layer. Specifically, this device is obtained, for example, by the following processes: a hole transport layer consisting of a triphenylamine derivative of formula II, a luminescent layer consisting of a compound of formula I, an electron transport layer consisting of an oxadiazole compound of formula III and the anode consisting of Mg:Ag alloy with the atom ratio of (10:1) are formed successively in this order by vacuum deposition on a tin oxide-indium anode-bearing glass substrate.

